

# REPORT ON OIL ENGINE MACHINERY.

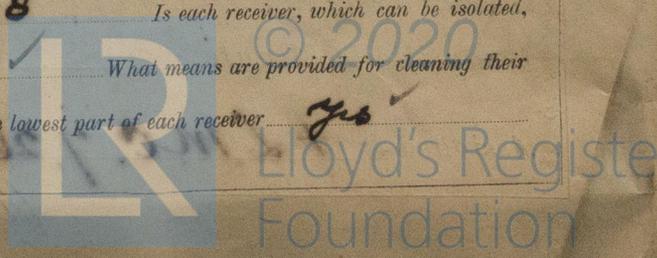
No. 45290

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Date of writing Report 2-7-1926 When handed in at Local Office 2-7-1926 Port of Glasgow  
 in Survey held at Clydebank Date, First Survey 22<sup>nd</sup> Jan (1925) Last Survey 15<sup>th</sup> July 1926  
 Book. on the <sup>Single</sup> ~~Twin~~ ~~Triple~~ Screw vessels "British Diplomat" Tons {Gross 6484 Net 4555  
 Master Built at Clydebank By whom built John Brown Yard No. 507 When built 1926  
 Engines made at Clydebank By whom made John Brown & Co. Engine No. 507 When made 1926  
 Key Boilers made at Clydebank By whom made John Brown & Co. Boiler No. 507 When made 1926  
 Brake Horse Power 1250 Owners British Tanker Co. Ltd. Port belonging to London  
 Indicated Horse Power as per Rule 776 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

**ENGINES, &c.**—Type of Engines *Subje Diesel* 2 or 4 stroke cycle 2 Single or double acting *Single*  
 Pressure in cylinders 500 No. of cylinders 4 each eng No. of cranks 4 each eng Diameter of cylinders 23.632" 23 5/8"  
 Stroke 41.73" 4 1/4" Revolutions per minute 100 Means of ignition *Comp air* Kind of fuel used *Diesel oil*  
 bearing between each crank *Yes* Span of bearings (Page 92, Section 2, par. 7 of Rules) 32.52"  
 between centres of main bearings 48.03" Is a flywheel fitted *Yes* Diameter of crank shaft journals as per Rule *App. 26.6.24* as fitted 15.75"  
 of crank pins 15.75" Breadth of crank webs as per Rule *App. 26.6.24* as fitted 31.49" Thickness of ditto as per Rule *App. 26.6.24* as fitted 10.11"  
 of flywheel shaft as per Rule *App. 26.6.24* as fitted 15.75" Diameter of tunnel shaft as per Rule *App. 26.6.24* as fitted 12 1/4" Diameter of thrust shaft as per Rule *App. 26.6.24* as fitted 15.75"  
 of screw shaft as per Rule *App. 26.6.24* as fitted 12 1/2" Is the screw shaft fitted with a continuous liner the whole length of the stern tube *Yes*  
 If the liner is in more than one length are the joints burned *Yes*  
 If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive *Tight fit*  
 If without liners, is the shaft arranged to run in oil *Yes*  
 nuter gland fitted to stern tube *Vickers O.F.* Length of stern bush 72 3/8" Diameter of propeller 18'-0"  
 propeller 10'-9" No. of blades 4 state whether moveable *Yes* Total surface 508 square feet  
 of reversing *Hand* Is a governor or other arrangement fitted to prevent racing of the engine when declutched *Yes* Thickness of cylinder liners 1.771"  
 cylinders fitted with safety valves *Yes* Means of lubrication *Forced* Are the exhaust pipes ~~water cooled~~  
 If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine *Yes*  
 No. of cooling water pumps 2 each eng Is the sea suction provided with an efficient strainer which can be cleared *Yes*  
 No. of bilge pumps fitted to the main engines *None* Diameter of ditto Stroke  
 No. of auxiliary pumps connected to the main bilge lines 3 How driven *Motor*  
 No. and sizes of suction connected to both main bilge pumps and auxiliary bilge pumps:—In engine room 2-3 1/2", 1-2 1/2"  
 No. of ballast pumps 1 How driven *Motor* Sizes of pumps *Duplex 7 1/2" x 8"*  
 Last pump fitted with a direct suction from the engine room bilges *Yes* State size 7" Is a separate auxiliary pump suction fitted in  
 Room and size *Yes 2-3 1/2"* Are all the bilge suction pipes fitted with roses *Yes* Are the roses in Engine Room always accessible *Yes*  
 Are all connections with the sea direct on the skin of the ship *Yes*  
 valves or cocks *Both* Are they fixed sufficiently high on the ship's side to be seen without lifting the floor plates *Yes*  
 discharge pipes above or below the deep water line *Below* Are they each fitted with a discharge valve always accessible on the plating of the vessel *Yes*  
 pipes, cocks, valves and pumps in connection with the machinery accessible at all times *Yes* Are the bilge suction pipes, cocks and valves arranged so as to prevent any  
 ication between the sea and the bilges *Yes* Is the screw shaft tunnel watertight *None* Is it fitted with a watertight door *Yes*  
 If a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork *Stale*  
 main air compressors 1 each engine No. of stages 3 Diameters 25.19", 22.83" Stroke 22.04" Driven by *Main Eng*  
 auxiliary air compressors 2 No. of stages 3 Diameters 5.51", 7.0 3/4" Stroke 6" Driven by *Slip*  
 small auxiliary air compressors *None* No. of stages 2 Diameters 2 7/8" Stroke Driven by  
 scavenging air pumps 1 each engine Diameter 51.18" Stroke 29.92" Driven by *Main Eng*  
 Are the air compressors and their coolers made so as to be easy of access *Yes*

**RECEIVERS:**—No. of high pressure air receivers 3 Internal diameter 1-17 3/32" Cubic capacity of each 2-5.3 cubic ft, 1-18.35 cubic ft  
 Seamless, lap welded or riveted longitudinal joint *Solid drawn* Range of tensile strength 28-32  
 working pressure by Rules 1300 No. of starting air receivers 4 Internal diameter 48"  
 Material *S* Seamless, lap welded or riveted longitudinal joint *riveted*  
 thickness 1 1/8" Working pressure by rules 608 Is each receiver, which can be isolated,  
 with a safety valve as per Rule *Yes* Can the internal surfaces of the receivers be examined *Yes* What means are provided for cleaning their  
 surfaces *Manhole* Is there a drain arrangement fitted at the lowest part of each receiver *Yes*



IS A DONKEY BOILER FITTED? *yes*

If so, is a report now forwarded? *yes*

HYDRAULIC TESTS:-

DESCRIPTION.	DATE OF TEST.	WORKING PRESSURE.	TEST PRESSURE.	STAMPED.	REMARKS.
ENGINE CYLINDERS		500	1000	JSC	
" " COVERS		"	1000	JSC	
" " JACKETS		"	30	JSC	
" " PISTON WATER PASSAGES		"	30	JSC	
MAIN COMPRESSORS—1st STAGE		70	140	JSC	
" 2nd		212	425	JSC	
" 3rd		1000	2000	JSC	
AIR RECEIVERS—STARTING		500	1000	JSC	16846. 16854
" INJECTION		1000	2000	JSC	T.H. 16.6.25 (2077) J.P. 41794.15
AIR PIPES		1000	2000	JSC	
FUEL PIPES		1000	2000	JSC	
FUEL PUMPS		1000	2000	JSC	
SILENCER			00	JSC	
" WATER JACKET			1	JSC	
SEPARATE FUEL TANKS				JSC	

PLANS. Are approved plans forwarded herewith for shafting *no 26-6-24* Receivers *29-4-24.* Separate Tanks *none*  
 (If not, state date of approval)

SPARE GEAR *See attached list*

**John Brown & Company, Limited.**  
 The foregoing is a correct description.

*J. Henderson*  
 Clydebank Secretary, Manufacturers.

Dates of Survey while building: During progress of work in shops-- *1925 Jan 22-27-29 Feb 3-5 Mar 22-23-14 Apr 2-9-14-16-23-24-30 May 4-7-11-12-18-20-21-26-26-28*  
 During erection on board vessel-- *June 1-8-11-12-15-18-22-23-26-29 July 2-9-17-13-30 Aug 3-6-10-13-17-21-25 Sep 3-8-14-16-21-24-29 Oct 2-9-12-6-16-19-23*  
 Total No. of visits *121*

Dates of Examination of principal parts—Cylinders *23-3-25 etc* Covers *23-3-25 etc* Pistons *14-4-25 etc* Rods *3-8-25* Connecting rods *3-8-25*  
 Crank shaft *19-4-26* Thrust shaft *19-4-26* Tunnel shafts *4-3-26* Screw shaft *4-3-26* Propeller *15-3-26* Stern tube *4-3-26* Engine seatings *1-2-26*  
 Engines holding down bolts *13-5-26* Completion of pumping arrangements *30-6-26* Engines tried under working conditions *1-7-26.*  
 Completion of fitting sea connections *4-3-26* Stern tube *15-3-26* Screw shaft and propeller *18-3-26.*  
 Material of crank shaft *S* Identification Mark on Do. *507.* Material of thrust shaft *S* Identification Mark on Do. *2343, 2344, 2345*  
 Material of tunnel shafts *S* Identification Marks on Do. *3127, 3128* Material of screw shafts *S* Identification Marks on Do. *3136, 3137, 3138, 3139, 3140, 3141, 3142, 3143, 3144, 3145, 3146, 3147, 3148, 3149, 3150, 3151, 3152, 3153, 3154, 3155, 3156, 3157, 3158, 3159, 3160, 3161, 3162, 3163, 3164, 3165, 3166, 3167, 3168, 3169, 3170, 3171, 3172, 3173, 3174, 3175, 3176, 3177, 3178, 3179, 3180, 3181, 3182, 3183, 3184, 3185, 3186, 3187, 3188, 3189, 3190, 3191, 3192, 3193, 3194, 3195, 3196, 3197, 3198, 3199, 3200, 3201, 3202, 3203, 3204, 3205, 3206, 3207, 3208, 3209, 3210, 3211, 3212, 3213, 3214, 3215, 3216, 3217, 3218, 3219, 3220, 3221, 3222, 3223, 3224, 3225, 3226, 3227, 3228, 3229, 3230, 3231, 3232, 3233, 3234, 3235, 3236, 3237, 3238, 3239, 3240, 3241, 3242, 3243, 3244, 3245, 3246, 3247, 3248, 3249, 3250, 3251, 3252, 3253, 3254, 3255, 3256, 3257, 3258, 3259, 3260, 3261, 3262, 3263, 3264, 3265, 3266, 3267, 3268, 3269, 3270, 3271, 3272, 3273, 3274, 3275, 3276, 3277, 3278, 3279, 3280, 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